

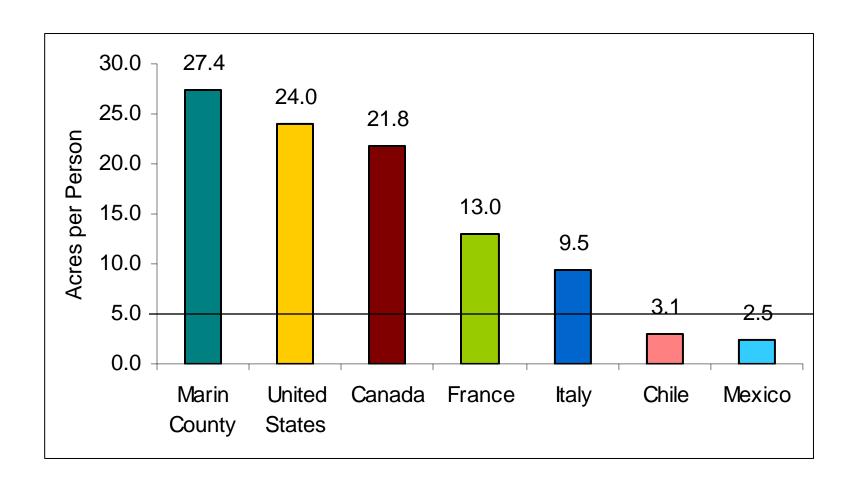
### "Planning sustainable communities"

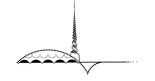
is the overarching theme of the CWP update

### **CWP Definition of Sustainability:**

- Aligning our built environment and socioeconomic activities w/ the natural systems that support life
- Adapting human activities to the constraints and opportunities of nature
- Meeting the needs of both the present and the future

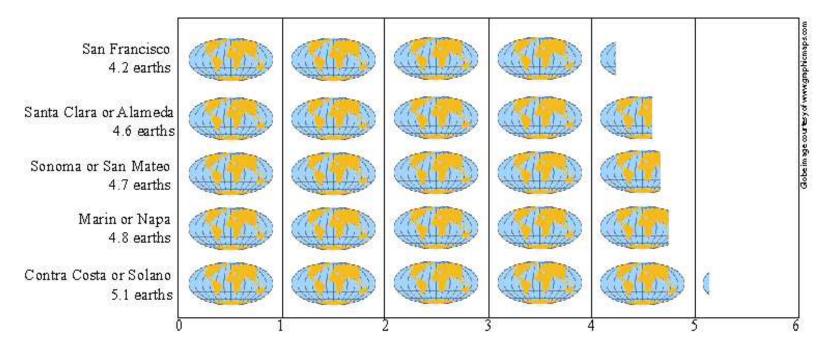
### Ecological Footprint Comparison

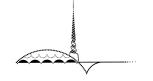




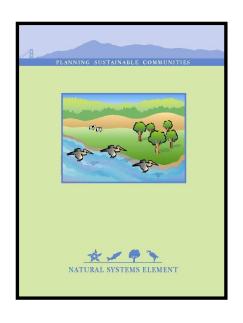
### How Does Marin's Footprint Compare?

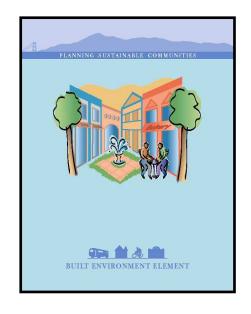
Number of earths that would be required to serve the footprint of each S.F. Bay Area County:

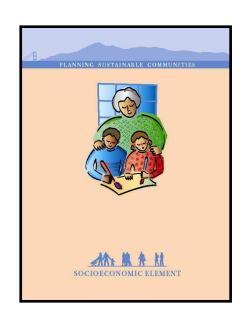




### Marin Countywide Plan



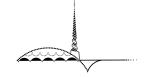




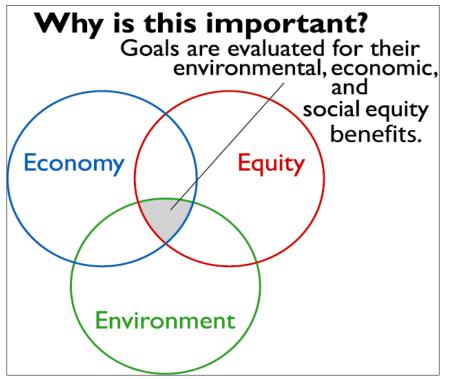
Natural
Systems and
Agriculture

Built Environment

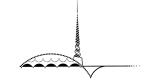
Socioeconomic



### Countywide Plan

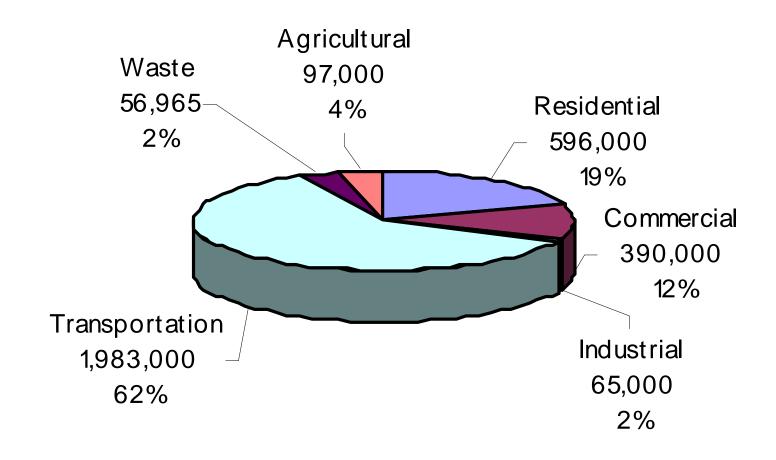


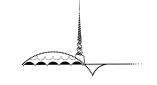
- Each element addresses:
- What are the desired outcomes?
- Why it is important?
- How will results be achieved?
- How will success be measured?



### 2005 Countywide GHG Emissions:

Tons CO2e & Percent by Sector





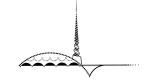
### Key Climate Change Goals



Reduce GHG emissions

Monitor climate change

Adapt to climate change



### Policies for Reducing GHG Emissions







Conserve Electricity

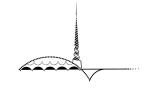
- Change Commuting & Driving Patterns
- Divert Solid Waste



 Increase Biocapacity of Open Space & Agriculture



 Increase Local Food & Sustainable Agriculture



### Other Policies for Reducing GHG Emissions

- Evaluate Carbon Neutral Building Incentives
- Encourage Zero, Partial Zero & Low-Emission Vehicle Use

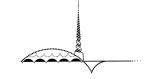
- Consider the Economic Impacts of Climate Change
- Promote Climate Change Education



### Set Target to Reduce Emissions



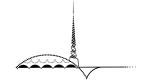
Indicator	Benchmark	Targets
Amount of GHG	2,634,000 tons	Reduce 15-20%
<b>Emissions</b>	CO2 in 1990	by 2020.
Countywide		



### Built Environment: Key Ideas

- Transfer development potential away from environmentally sensitive lands and focus intelligent infill closer to transit, jobs, and services
- Support vehicle trip reduction measures
- Require Green Building





## Marinwood Shopping Center

Before:



After:





### San Quentin Vision Plan Land Use Plan



Map 3-36 San Quentin Re-use Concepts

### Transportation Programs





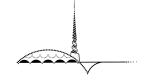




- Create Car Share Program
- Encourage Bicycling & Walking
- Ensure Safe Routes to Schools



Support Green Fuels



### Socioeconomic Element





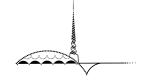
Indicator	Benchmark	Targets
Number of	0 in 2000	Increase to
certified		250 by 2010,
"green"		and 400 by
businesses		2015



# Can the Plan Reduce Marin's GHG Emissions and Ecological Footprint?

Meeting just the energy and transportation targets would:

- Reduce Marin's footprint by nearly one million global acres per year, equal to a 15% reduction
- Reduce GHG Emissions by 15-20%
- Still not be equal to Italy's footprint, but would help reduce the over-consumption of Earth's biological capacity and serve as a model for other affluent areas.



### Implementing programs that link people, the economy and the environment

The Community Development Agency offers a broad array of programs to help move Marin towards a more sustainable future including:

- Solar Incentives
   Green Business

- Climate Protection Green Building
- Energy Efficiency
   Waste Tire Education
- Sustainable County Operations
- Sustainability in the Countywide Plan



For more info. contact the Marin County Community Development Agency at one of the numbers below, or visit:

www.sustainablemarin.org

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Dana Armanino	Green Business & Energy Coordinator	499-3292
Alec Hoffmann	Green Building Program Coordinator	507-2659
Omar Peña	Sustainability Aide	507-2797

# Solar map

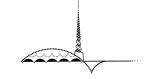


### Results – Snapshot in Time





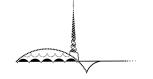
- County has awarded in \$50,000 in solar rebates
- Annual solar installations countywide grew from 8 in the year 2000 to 138 in the year 2005
- Currently there are over 800 systems countywide
- And these are reducing GHG emissions by 2,465 tons annually



### Promoting Green Building

- Woodstove rebate program
- Free technical assistance on Green Building
- Residential Energy Ordinance which reduces the energy use in new large homes
- Construction & Demolition Waste Ordinance
- Green points checklist which has been integrated into our permitting process
- Education: trainings, events, and informational materials like the display pictured here





### Fireside Project Requirements

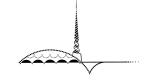
- Affordable Rents
- Solar PV Systems
- Daylighting
- Energy Efficiency
- Durable Construction Materials
- Green Materials
- Low VOC finishes
- Stormwater Protection
- Construction Waste Recycling



### Results – Snapshot in Time



- Remodels exceeded State energy standards by an average of 10%
- New homes exceeded standards by 20%
- 75,000 tons of diverted waste reduced GHG emissions by 150,000 tons



### Promoting Green Businesses

### Since April 2002:





- Certified 245 green businesses
- Certified 8 businesses as sustainable partners



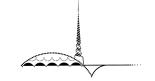


### Promoting Climate Protection

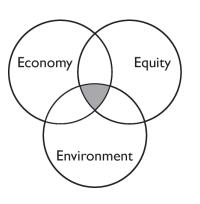


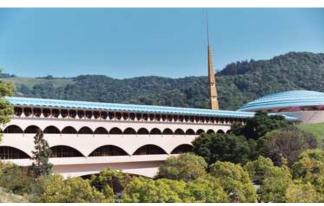
Joined ICLEI's five step program in 2002:

- ✓ I. Assessed Marin's greenhouse gas (GHG) emissions
- ✓ 2. Set target to reduce emissions
- ✓ 3. Developed implementation plan to meet the target
- 4. Implement GHG reduction plan
- 5. Reassess GHG emissions

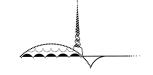


# --- County Operations Report--Measuring Progress Toward Sustainability





- Which highlights successful initiatives from all County departments and divisions
- Identifies potential areas for further progress, and soon will include
- Indicators & targets to track progress



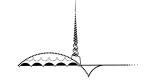
### Other programs

#### Marin Public Facilities

Energy Management Team



- The MarinEMT program helps local govts and schools with energy audits and upgrades - and soon into the residential sector.
- The Urban Environmental Accords were adopted by Board of Supervisors
- Community Choice Aggregation Study



# For more information contact the Marin County Community Development Agency. www.marinsustainability.org

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